For Research Use Only

CoraLite® Plus 488-conjugated EEF1A2 Monoclonal antibody

Catalog Number:CL488-66806

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
CL488-66806

Size:
1000 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG6875

GenBank Accession Number:
BC000432

GeneID (NCBI):
1917

UNIPROT ID:
Q05639

Full Name:
eukaryotic translation elongation factor 1 alpha 2

Calculated MW:
50 kDa

Observed MW:
48-50 kDa

Purification Method:
Protein G purification

CloneNo.:
4F3F4

Recommended Dilutions:
IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:
493 nm / 522 nm

Applications

Tested Applications:
IF/ICC, FC (Intra)

Species Specificity:
human, mouse, rat, pig

Positive Controls:

IF/ICC : U2OS cells,

Background Information

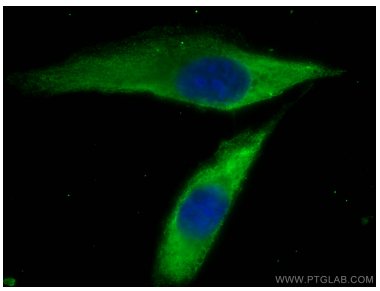
eEF1A2 is one of two isoforms (eEF1A1 and eEF1A2) of eukaryotic elongation factor 1 alpha (eEF1A or eEF1α). The two isoforms share more than 90% sequence identity and have the similar function that being a protein translation factor involved in protein synthesis. Addition, eEF1A2 plays an important role in cell cycle regulation, heat-shock response, aging, posttranslational modifications, and signal transduction (PMID: 25905039). eEF1A2 is expressed in heart, brain tissue, diaphragm and skeletal muscle while eEF1A1 is expressed ubiquitously (PMID:14588074). And the eEF1A2 protein stimulates the phospholipid signaling and activates the Akt-dependent cell migration and actin remodeling that ultimately favors tumorigenesis. It is reported that eEF1A2 was related with kinds of cancers such as ovarian cancer, prostate cancer, pancreatic cancer, breast cancer and lung cancer (PMID:14588074; 24853801; 25744894; 25905039). An 48 kDa band has also been reported(PMID: 24285179).

Storage

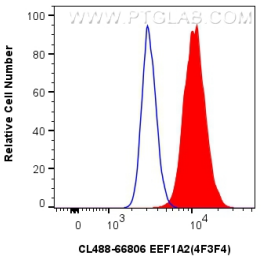
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



Immunofluorescent analysis of (-20°C Methanol) fixed U2OS cells using CoraLite® Plus 488 EEF1A2 antibody (CL488-66806, Clone: 4F3F4) at dilution of 1:200.



1x10^6 U2OS cells were intracellularly stained with 0.4 ug CoraLite® Plus 488-conjugated EEF1A2 Monoclonal antibody (CL488-66806, Clone:4F3F4) (red), or 0.4 ug CoraLite® Plus 488 Mouse IgG1 Isotype Control (1F8D3) (CL488-66360-1, Clone: 1F8D3) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).